



MICH-A-CON

Iron Mountain,
Dickinson County, Mich

September 2017

Meeting Reminder: Second Wednesday of the Month

Which is **August 9, 2017** at 07:00 PM at the Dickinson Library, Iron Mountain.

From The President

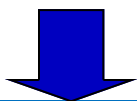
Words from the President for September 2017

I'm going on a 6 day vacation to a city west of here. I believe it's located in a western state. I will be back for the next meeting at 7:00 at the library on September 13th. The library will begin winter hours; so, the meeting will be at 7:00pm.

Nothing good to say about ham radio. No beams working. Haven't installed the A3S. No climbers. Nothing on the bands to excite me anyway.

Thanks to Debbie for her hard work organizing the Swapfest for September 30th!!! More at the next meeting.

73 and 88,
Tom W8JWN



From Bill KD8VTT

IMPORTANT!

Attached is a flyer promoting the Mich-A-Con / Iron Range Swap Fest scheduled for September 30 in Crystal Falls at the Mansfield Township Hall.

The fest is selling off the the extensive Ham Radio Estate of Leroy Anderson, N8WQG, and the proceeds will be split between the Mich-A-Con A.R.C. of Iron Mountain and the Iron Range A.R.C. as per Leroy's request. In addition, Ralph Haugen, KB9HAH, also donated some gear for the swap.

The success of any swap fest is determined by a large attendance and table rentals. Please forward the flyer to any ham radio club and anyone interested in attending.

Volunteers are needed for set-up, take down, kitchen help, door prizes, front entry table, radio talk-in station and anything else that may arise. Set-up will start on Friday, September 29th, as we have rented the hall for 2 days.

If you can volunteer, please contact Bill, at KD8VTT@gmail.com or Debbie, at KD8VTS@gmail.com by September 17th.

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MICH-A-CON AMATEUR RADIO CLUB MINUTES OF August 9th, 2017

President Tom Martin called the meeting to order at 6:30 pm.

Secretary Report

No minutes read. Secretary absent

Treasurer Report

Balances as of August 9, 2017

Checking:\$53.77

Savings:\$1436.52 (Repeater:\$182.75)

Cash:\$23.00

Repeater Report

Receiving poorly to the south. The 4 bay was better. Suggestion to use the 4 bay with the duplexer.
Don't use the Comet for receive.

Old Business

Gary Schafer said that the 2018 Field Day could definitely be at his farm.

Debbie and Tom will get together this year to compare ARRL and our present insurance policies.

Leroy Anderson estate to be sold at a Swapfest this fall. Different venues were discussed and will be checked.

New Business

None

**Adjournment**

Meeting adjourned at 7:10 pm.(Terry Moriarity and Bruce LaLiberte)

The 50/50 drawing was won by Gary Schafer. The treasury was enriched by \$25.

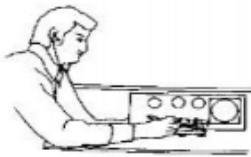
For the Good of the Order

Attendees reported on their recent activities.

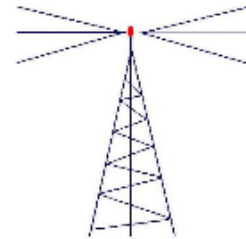
Attendees**Tom Martin****W8JWN****Debbie Grabowski****KD8VTS****Burton Armbrust****WB8EBS****Bill Grabowski****KD8VTT****Dave Thomas****KG9Y****Sam Holmes****N8ATS****Tim Miller****N8TUM****Bruce LaLiberte****KD9HQD****Gary Schafer****K4FMX****Scott Jarmusch****KA8TFF****Terry Moriarity****K9TRY**

News

Mich-A-Con Amateur Radio Club Of Iron Mountain & Iron Range Amateur Radio Club Of Iron River



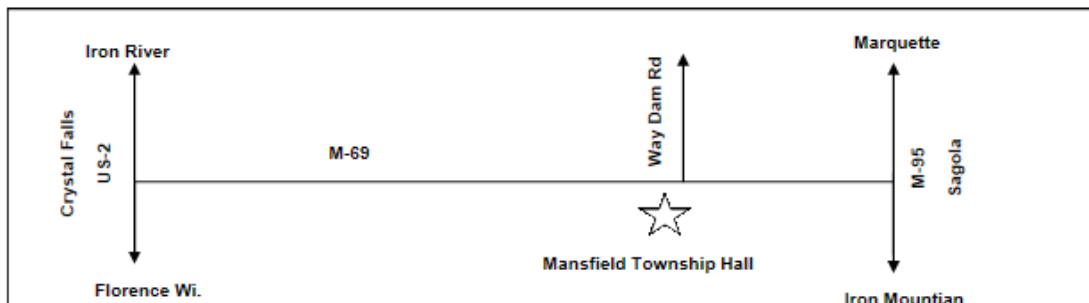
1st ANNUAL HAM RADIO SWAP FEST

**Where:**

Mansfield Township Hall
2804 Highway M-69
Crystal Falls, Mi 49920

**When:**

September 30, 2017
Setup Time: 7:00 am
Doors Open @ 9:00 am Til 1:00 pm CDT

**General Admission: \$5****Door Prizes****Table Rental: \$5.00**

For Information or Reservations Contact:

Debbie Grabowski - KD8VTS

Phone: (906) 284-2458 or Email:
KD8VTS@gmail.com**Refreshments / Food Available****Handicap Accessible - 1st Floor****Talk-In****Iron Mtn: 146.850 - pl 100****Iron River: 145.170 - pl 107.2**

If you can volunteer, please contact Bill, at KD8VTT@gmail.com or Debbie, at KD8VTS@gmail.com by September 17th.

Operating Procedures During Hurricane Irma

ZCZC AG17
 QST de W1AW
 ARRL Bulletin 17 ARLB017
 From ARRL Headquarters
 Newington CT September 8, 2017

To all radio amateurs

Please be aware that due to the breadth of this series of weather events, numerous emergency and public service nets are in session, especially on the 80, 40, and 20 meter bands. US licensees are reminded that Part 97.101 (c) always gives priority to stations providing emergency communications. All stations should be aware that in a large-scale natural disaster, immediate threats to life and property can happen quickly. In order for Amateur Radio to play an effective role in supporting humanitarian efforts, it is key that all licensees cooperate to minimize potential on-air problems.

Amateurs should also be aware that the primary users on the 60-meter channels are using those channels extensively. Amateur stations, as secondary users, must ensure that their communications are conducted in such a manner to ensure that Federal government sta-

tions, as primary users, can have immediate use of any 60-meter channel.

Amateurs, please make sure you are leaving adequate breaks between transmissions to allow the primary stations to use the frequency. If a primary user does break into an amateur contact on the frequency, the amateurs involved should immediately cease their transmissions.

At this time, it is ARRL's understanding that only Amateur Radio Emergency or Amateur Radio Priority traffic is moving in and out of the affected areas. Amateur Radio Health and Welfare communications are being queued up for later delivery into the affected area, as the emergency and priority traffic eases.

In the aftermath of a natural disaster, it is human nature for persons outside of the affected area to seek information on their loved ones. Those wishing to send Health and Welfare queries are encouraged to use the American Red Cross's "Safe and Well" website to facilitate those contacts:

<https://safeandwell.communityios.org/cms/index.php>

Salvation Army Team Emergency Radio Net-

RAC sent out the following bulletin a short time ago.

As well, near the bottom of this lengthy e-mail is a list of SATERN nets and frequencies.

The FCC has also authorized the use of a 60m channel so you 60m ops take note!

Frequencies in use are spread throughout 20m, 40m and 80m and now two channels, one voice, one data on the 60m band. As well, the FCC has authorized US ham radio ops to talk directly with federal FEMA stations which are not always amateur radio stations.

**** an earlier update from the ARRL included:

- Use of the 60 metre interop channels has been authorized. Channel 1 (5330.5 KHz) will be for VOICE and channel 2 (5346.5 KHz) will be for DATA. Direct communication between fed-

eral and Amateur stations is permitted.

- FEMA will be using special call signs if/when on Amateur bands. These call signs spell FEMA i.e. KF4EMA, WF3EMA, NF2EMA, etc.

**** and as always, do not hesitate to share your monitoring observations.

- Art VE3AKJ passed along that he was watching activity via a live webcam setup at Miami airport until that went down late yesterday.

<http://www.miamiairportcam.com/>

- Many others such as Tony VE3ZOG, my fellow retired person Bob VE3PJF, Mark VE3FEX, Bob VE3UK, TJ VA3FTC and many others have said that they are monitoring a plethora of the activity that is underway.

Thanks to all!!! Bill VE3ES

Update on Hurricane Irma: SATERN Bulletin

The following news item is an update on Hurricane Irma from the Salvation Army Team Emergency Radio Network (SATERN):

International SATERN Operators

International Amateur Radio Union (IARU) Region 2
Emergency Coordinators

SATERN Newsletter / Bulletins List Hurricane Irma:

As everyone knows by now, Hurricane Irma is a "potentially catastrophic" hurricane forecasted to make landfall on the Florida Keys and southern tip of Florida sometime late Saturday night or early Sunday (09/10/2017) morning. It is then forecast to move straight up the entire Florida peninsula into Georgia and Tennessee with potentially serious impacts on South and North Carolina and the midwest.

Serious communications interruptions are very likely, especially in Florida. In addition, Hurricane Irma has already had a devastating impact on several island nations and U.S. Territories in the Caribbean.

SATERN: International SATERN SSB Net:

The International SATERN SSB Net will remain in Delta II mode through Saturday, 16 September 2017. This includes operations on Sunday 10 September. The hours will remain as they have been all of this week - 0900 (CT) / 1400 Z through 1800 (CT) / 2300 Z each day.

Southern Territory SATERN Net:

The Southern Territory SATERN Net will be activated beginning on Saturday 09 September 2017 through Saturday, 16 September 2017. The Southern Territory Net will begin at the same time the International SATERN Net ends - 1800 (CT) / 2300 Z - and will operate until 2200 (CT) / 0300 Z. It will resume operations at 0700 (CT) / 1200 Z until 1000 (CT) / 1500 Z. In other words, the International SATERN Net will be active during the daytime hours when the 20 meter band is generally open (barring atmospheric disruptions) and the Southern Territory SATERN Net will be open in the late evening and early morning hours when 20 meters is not active yet.

Net Operations Protocols:

All Net Control Operators need to do the following:

1. Ask for, and leave a break for, emergency, priority or health & welfare message traffic between each station's comments. Collecting this information is the primary duty of the SATERN Net during this emergency.
2. Collect a brief situation report from the stations' location that includes:
 - a. Is there any hurricane wind damage? If so, is it minor moderate or severe?
 - b. Is there any tornado damage? If so, is it minor moderate or severe?
 - c. Is there any flood or storm surge damage? If so, is it minor moderate or severe?
 - d. Are there any power outages? If so, how wide-spread?
 - e. Are there any communications disruptions? If so, what kind and how wide-spread?

Neither the SATERN Net nor SATERN.org will be accepting INBOUND Health & Welfare Inquiries (Health & Welfare Messages inquiring about the health and welfare of people inside an impacted area). INBOUND Health & Welfare Inquiries should be referred to the American Red Cross Safe and Well program at: <https://safeandwell.communityos.org/>

SATERN is only accepting OUTBOUND emergency, priority or health & welfare messages that are coming OUT OF the disaster impact area.

THERE IS AN URGENT NEED FOR NET CONTROL OPERATORS ON BOTH NETS.

Any who wishes to volunteer as a Net Control or Assistant Net Control Operator for a one hour time slot or has questions about this activation for the International SATERN SSB Net should contact Net Manager Ken Gilliland (AG6SV) at AG6SV@ATT.net and Bob Rogers (WA5EEZ) at BobRgrs@hotmail.com.

Any who wishes to volunteer as a Net Control or Assistant Net Control Operator for a one-hour time slot or has questions about this activation for the Southern Territory SATERN Net should be forwarded to Net Manager Ken Standard (AD5XJ) at AD5XJ@ARRL.net.

Both the International SATERN SSB Net and the Southern



Territory SATERN Net strongly encourage the participation of bilingual (English & Spanish) Amateur Radio operators on their Nets.

International SATERN Digital Net: There are no current plans to activate this net at this time.

William H Feist Divisional Disaster Liaison
National SATERN Liaison

Update on September 7, 2017:

Radio Amateurs of Canada is monitoring the progress of the storms in the Caribbean and any necessary Amateur response.

The National Hurricane Center has issued another public advisory with an update on Hurricane Irma:

<http://www.nhc.noaa.gov/text/refresh/MIATCPAT1+shtml/061753.shtml>

Stay tuned to this website and to our social media sites for more information: Twitter

<https://twitter.com/ractweets> and Facebook

<https://www.facebook.com/radioamateurscdn/>

Here is a list of frequencies:

Puerto Rico: 3.803, 3.808, 7.188 MHz. Radio Amateurs in Puerto Rico also will cooperate with the Hurricane Watch Network on 7.268 and 14.325 MHz.

Cuba: Daylight hours, 7.110 MHz (primary) and 7.120 MHz (secondary); Provincial Net: 7.045, 7.080 MHz, and on other lower frequencies as necessary. Nighttime, 3.740 MHz (primary) and 3.720 MHz (secondary) and on other lower frequencies as necessary.

Dominican Republic: 3.873 MHz (primary), 3.815 MHz (secondary), 7.182 MHz (primary), 7.255 MHz (secondary); 14.330 MHz (primary), 21.360 MHz (primary), 28.330 MHz (primary).

Your usual cooperation is appreciated.

Doug Mercer, VO1DM CEC

RAC Vice-President and Community Services Officer

Emergency Coordinator IARU Region 2

Update on September 6, 2017:

The Salvation Army will activate their SATERN Net in response to Hurricane Irma

The SATERN Net will be activated this Wednesday, September 6 in the Delta II (extended monitoring) mode to listen for any traffic related to Hurricane Irma. This monitoring will continue through at least Saturday, September 9.

SATERN monitoring start each day at from 1400 UTC (7 am Pacific Time, 10 am Eastern Time) & continue to 2300 UTC (4 pm Pacific Time, 7 pm Eastern Time). Those wishing to continue monitoring after 2300 UTC are encouraged to monitor the Hurricane Watch Net, the frequencies & hurricane related information can be found at: <http://www.hwn.org/>

Update on September 5, 2017

As Hurricane Irma is now a Category 5 , please note the following advisory from Bill Feist with the Salvation Army Team Emergency Radio Network (SATERN) network. Please also see the following links:

National Hurricane Centre Hurricane Irma Public Advisory:

<http://www.nhc.noaa.gov/text/refresh/MIATCPAT1+shtml/051159.shtml>

FEMA Announces Regions that Could Activate on 60-Meters for Hurricane Irma

<http://www.arrl.org/news/fema-announces-regions-that-could-activate-on-60-meters-for-hurricane-irma>

Some Amateur Radio Preparations Under Way for Hurricane Irma <http://www.arrl.org/news/some-amateur-radio-preparations-under-way-for-hurricane-irma>

Your usual cooperation is appreciated.

Doug Mercer, VO1DM CEC

RAC Vice-President and Community Services Officer

Emergency Coordinator IARU Region 2

SATERN Bulletin: Hurricane Irma and Invest 94L

Hurricane Irma:

Hurricane Irma is now about 320 miles east of the Leeward Islands moving west at 14 mph as a Category 4 hurricane with sustained winds of 150 mph and gusts up to 185 mph near the storm's center. Some fluctuations in strength are normal but Hurricane Irma is expected to remain a category 4 hurricane. Hurricane Irma is currently about 370 miles wide.

Note: just prior to this posting Hurricane Irma has been upgraded to a category 5 hurricane.

Hurricane Irma is a growing threat to the United States, but will first pose a danger this week from the Leeward Islands and Puerto Rico and potentially to Hispaniola, the Bahamas and Cuba. By next weekend, Irma will begin to turn north in the direction of a departing southward dip in the jet stream that will set up in the eastern United States. Where that northward turn occurs will be critical for what impacts parts of the United States may see from Irma. It is far too soon to speculate on the specifics surrounding any potential U.S. threat from Irma, but it could pose a big danger as it draws closer later this week. The U.S. is likely to be impacted by Irma by the end of this week.

Invest 94L:

Invest 94L is an elongated area of low pressure located several hundred miles southwest of the Cabo Verde Islands. It continues to produce disorganized showers and thunderstorms. Environmental conditions are expected to be conducive for gradual development and a tropical depression is likely to form later this week as the system moves WNW at 10 to 15 mph over the tropical Atlantic Ocean. Invest 94L has a 90% chance of becoming a tropical system within the next 5 days. If this becomes a named storm, it will be called Jose.

There is also a second disturbance (Disturbance #2) in the Bay of Campeche. It is a trough of low pressure. Environmental conditions are marginally conducive for some slow development of this system with the National

Hurricane Center giving it a 60% chance of development in the next 5 days.

SATERN:

Tuesday, September 5, 2017:

Because Hurricane Irma is not expected to begin affecting the Leeward Islands until later in the evening on Tuesday, September 5, 2017, SATERN operators are encouraged to begin monitoring either of the two Hurricane Watch Net frequencies on 14.325 MHz or 7.268 MHz, depending upon propagation for their location.

Wednesday, September 6 through Saturday, September 9, 2017:

Beginning Wednesday, 06 September 2017, the International SATERN SSB Net will move to a Delta II (extended monitoring) status from 0900 (CT) / 1400 Z until 1800 (CT) / 2300 Z. From 1800 (CT) / 2300 Z until 0900 (CT) / 1400 Z the next day, SATERN operators will again be encouraged to monitor either of the Hurricane Watch Net frequencies as conditions dictate.

This same schedule will continue through at least Saturday, September 9, 2017. It is possible that this same schedule will be continued into the next week depending upon (a) the level of threat posed by Hurricane Irma, and (b) the needs of The Salvation Army.

Stations interested in signing up for a one or more one hour slot(s) between 1100 (CT) / 1600 Z through 1800 (CT) / 2300 Z to be either a Net Control Station or Assistant Net Control Station should contact Net Manager Ken Gilliland (AG6SV) at AG6SV@ATT.net and Assistant Net Manager Bob Rogers (WA5EEZ) at BobRgrs@Hotmail.com .

Stations checking-in will be asked to provide the Net Control Station with the following information: 1. Any emergency, priority or health & welfare messages that may come out of the impacted area(s)



2. A brief situation report from the stations' location that includes:

a) Is there any hurricane wind damage? If so, is it minor moderate or severe?

b) Is there any tornado damage? If so, is it minor moderate or severe?

c) Is there any flood or storm surge damage? If so, is it minor moderate or severe?

d) Are there any power outages? If so, how wide-spread?

e) Are there any communications disruptions? If so, what kind and how wide-spread?

Neither the SATERN Net nor SATERN.org will be accepting Health & Welfare Inquiries (Health & Welfare Messages inquiring about the health and welfare of people inside an impacted area). Health & Welfare Inquiries should be referred to the American Red Cross Safe and Well program at: <https://safeandwell.communityos.org/>

Both the International SATERN SSB Net and the Hurricane Watch Net strongly encourage the participation of bi-lingual (English & Spanish) amateur radio operators on their Nets.

Hurricane Irma is a particularly dangerous storm which will bring category 4 winds and torrential rain to numerous Caribbean islands and very likely somewhere in the U.S. mainland afterwards.

International SATERN Digital Net: There are no current plans to activate this net at this time.

Partners:

Hurricane Watch Net (HWN): Net Manager Bobby Graves (KB5HAV) believes that the Hurricane Watch Net will begin operations on Tuesday, 05 September 2017 at 1300 (CT) / 1800 Z. Please watch their website at HWN.org or further details. SATERN stations should NOT check-in but only monitor the frequency. Significant situation or damage reports can be sent to National SATERN Liaison Bill Feist (WB8BZH) at Bill.Feist@USS.SalvationArmy.org.

VoIP Hurricane Net: Net Manager Rob Macedo (KD1CY) reports that the VoIP Hurricane Net will begin operation on Tuesday, 05 September 2017 at 1700 (CT) / 2200 Z and will remain active into sometime on Wednesday, 06 September 2017. Additional information about activations will be available at VoIPWX.net.

WX4NHC: The National Hurricane Center amateur radio station will also begin operations on Tuesday, 05 September 2017 at 1700 (CT) / 2200 Z. They generally monitor the Hurricane Watch Net and VoIP Hurricane Nets.

Revised NCVEC Form 605 Must Be Used at Exam Sessions Starting on August 21

ZCZC AG16
 QST de W1AW
 ARRL Bulletin 16 ARLB016
 From ARRL Headquarters
 Newington CT August 18, 2017
 To all radio amateurs

SB QST ARL ARLB016
 ARLB016 Revised NCVEC Form 605 Must Be Used at Exam Sessions Starting on August 21

With a revised FCC Form 605 - Quick-Form Application for Authorization in the Ship, Aircraft, Amateur, Restricted and Commercial Operator, and General Mobile Radio Services - soon going into effect, the National Conference of Volunteer Examiner Coordinators (NCVEC) has updated its unofficial NCVEC Form 605 that's used at volunteer examination sessions. The revised NCVEC Form 605 must be used at exam sessions starting on August 21. Both the new FCC and NCVEC forms ask applicants if they have been convicted of a felony in any state or federal court. This conforms with FCC requirements to evaluate an applicant's qualifications to hold any FCC-issued license. The FCC has been asking "the felony question" on other forms, and its omission on Form 605 was an apparent oversight.

An applicant's response and explanation to the felony question - now included on NCVEC Form 605 - will be used to determine eligibility to be a Commission licensee. If the answer to the felony question is "yes," the applicant must submit to FCC - separately from NCVEC Form 605 - a statement (the FCC calls it an "exhibit") explaining the circumstances. Such applications will be held for a basic qualification review, something the FCC already does for other licensed radio services. The FCC's Wireless Telecommunications Bureau has said that an affirmative answer to the felony question does not mean that an application will be denied automatically.

An applicant's answer to the felony question and their exhibit will be publically viewable via the Universal Licensing System (ULS). The applicant can request that all or part of the exhibit be kept confidential, and it will not be visible to the public.

VECs will not handle exhibits and confidentiality requests; these must be filed with the FCC by the applicant.

Applicants must answer the felony question only when filing NCVEC Form 605 or FCC Form 605 for a New, Amendment, Modification (upgrade or call sign change), or Renewal/Modification (changes at renewal time). The question does not have to be answered if the applicant is filing a renewal or an administrative update (change of address, name, e-mail address, etc).

New NCVEC 605 Forms and an Applicant information sheet for use at ARRL Volunteer Examiner Coordinator exam sessions starting on August 21 have been published. VEC teams should discard all existing versions of the NCVEC Form 605; they no longer will be valid and cannot be used going forward.

The FCC has indicated that all VECs must begin submitting this additional data starting on September 7. NCVEC decided to make August 21 the effective date to accommodate mail schedules and the Labor Day holiday.

NCVEC Form 605 has not been revised since the Commission restructured Amateur Radio license classes 17 years ago.
 NNNN

ARLB032 W1AW 2016/2017 Winter Operating Schedule

ARRL Bulletin 1 ARLB001
From ARRL Headquarters
Newington CT January 3, 2017
To all radio amateurs

Morning Schedule:

Time	Mode	Days
1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST)
1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)
(Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

Afternoon/Evening Schedule:

2100 UTC (4 PM EST)	CWf	Mon, Wed, Fri
2100 " "	CWs	Tue, Thu
2200 " (5 PM EST)	CWb	Daily
2300 " (6 PM EST)	DIGITAL	Daily
0000 " (7 PM EST)	CWs	Mon, Wed, Fri
0000 " "	CWf	Tue, Thu
0100 " (8 PM EST)	CWb	Daily
0200 " (9 PM EST)	DIGITAL	Daily
0245 " (9:45 PM EST)	VOICE	Daily
0300 " (10 PM EST)	CWf	Mon, Wed, Fri
0300 " "	CWs	Tue, Thu
0400 " (11 PM EST)	CWb	Daily

Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975 21.0675
28.0675 147.555
DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095
28.095 147.555
VOICE: 1.855 3.990 7.290 14.290 18.160 21.390
28.590 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM
CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM
CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.
DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

The voice mode used for W1AW's 40 meters voice bulletins is now full-carrier, double sideband AM.
Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.
On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to w1aw@arrl.org.

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Digital at 15 minutes past the hour, and CW on the half hour.

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy.

The W1AW Operating Schedule may also be found on page 96 in the January 2017 issue of QST or on the web at <http://www.arrl.org/w1aw-operating-schedule>.

ARRL MICHIGAN SECTION NEWS

Greetings to the hams of Michigan,

Summer is in its final weeks and soon the Labor Day Holiday will soon be here. Students will be going back to school soon and the weather will begin to have a morning crispness and some colors will begin to appear in the trees. Fall in Michigan is a spectacular season and is some of the best weather all year long. Often a fall day may start out cold and overcast only to have a beautiful afternoon and evening appear like magic. A perfect time for ham radio outside!

ARRL Great Lakes Division Convention @ Michigan International Speedway October 7 & 8, 2017.

As you know, the Great Lakes HamCon event is the 2017 Great Lakes Division Convention and that brings with it an opportunity for the hams of Michigan to really shine. We have the absolute best venue possible, with literally acres of asphalt. There will be no mud there, even if we were to have lots of rain. Planning and preparation for the October 7 & 8 continues at a fever pitch. We are now less than 60 days out so it won't be long now.

We have good news for those who are planning to attend the GL HamCon and are looking for a nearby hotel. We are pleased to announce that we have an agreement with the Hampton Inn in Jackson, MI (about 30 minutes from MIS) whereby they will be our preferred hotel for the 2017 event.

We have arranged for special rates for our attendees (\$30.00 off regular rates) by using this special code: GLH. Reservations can be made either on the telephone (517-789-5151) or online at <http://jacksonmi.hamptoninn.com>.

Be sure to click on 'Add Special Rate Codes' and enter 'GLH' in the Group Code box.

There are many additional hotels within a short drive from MIS. Camping for tents to motorhomes and everything in between is available on MIS property at very reasonable prices. Full camping, flea market and event ticket info available on our website at www.glhamcon.org.

Great Lakes HamCon Ticket Hamfest Giveaway

We are giving away two General Admission tickets at every ARRL hamfest in Michigan between now and September 23. When I am present at a swap, I will bring the tickets with me and for the swaps that I am unable to attend, I will mail them to the hamfest committee in advance.

The tickets will be given out via two separate drawings at each swap using the ticket information collected from participants at each hamfest. You will want to make sure that you get your swap ticket stubs into the hopper at every hamfest you attend.

Be advised that the GLHamCon ticket winners will not receive their tickets (wristbands) until a couple of weeks before the event. Our ticketing process is electronic and will have our MIS ticketing partners process all winning tickets at the same time. The wristbands will either be mailed to the winners or made available at the will-call office at the event.

Thus far, the following Michigan hams have won tickets to GLHamCon:
K8TB, K8AJ, W8VWY, WB8SAM, KC8TU, K8VOX, KD8UXC, N8REZ, N8COQ, N8XZ, K8NGV, KC8ZLQ, N8PKN, KG8CX, KB8SWR, KC8JVO, KE8BFW, N8LJ.
Congratulations to all!

GLHamCon Information



Be sure to keep an eye on our website (www.glhamcon.org) for the latest information. You can sign up for receiving updates and other information on the website. Michigan amateur radio clubs and individuals who are signed up to receive information get the periodic HamCon News updates that are periodically published and distributed to all who sign up.

Stay tuned.... It's Gonna be Great!

- Oct 7-8, 2017 ARRL Great Lakes Division Convention – WB8R, et al Great Lakes HamCon, Brooklyn, MI
- Oct 21, 2017 Muskegon Hamfest, Muskegon, MI – WB8R
- Oct 22, 2017 Kalamazoo Swap & Shop – WB8R
- Oct 29, 2017 USECA Swap, Madison Hgts, MI – WB8R
- Dec 3, 2017 L'Anse Creuse Swap, Madison Hgts – WB8R

Michigan Section Newsletter Contest

Many thanks to the clubs who have presented their fine newsletters in competition to determine the 2017 best amateur radio newsletters in the Michigan ARRL Section. We will have a winner and runner-up shortly and will make the announcement.

The first and second place winners will receive a handsome plaque noting their achievement and said plaques will be presented to a club representative at the 2017 Great Lakes Convention in Brooklyn, MI on October 7 & 8. Michigan's winner will compete with the best newsletters from Ohio and Kentucky. My appreciation goes to our Affiliated Club Coordinator Joe Miller, KJ8O for his efforts to coordinate this contest for us.

Hospitality Acknowledgements

Many thanks go to the following groups for the fine hospitality shown during travels around the Section:

- July 22, 2017 Harrison Hamfest, Harrison, MI – W8CT
- July 29, 2017 CMARC Outdoor Swap – WB8R
- Aug 5, 2017 UP Hamfest, Escanaba, MI – WB8R
- Aug 12, 2017 Midland Hamfest, Midland, MI – WB8R

Michigan Section Events and Staff Travel Plans

- Aug 19, 2017 Alpena SWAP 2017, Alpena, MI
- Aug 19, 2017 Spark in the Park, Wyoming, MI – WB8R
- Sep 9, 2017 GraHamfest, Wyoming, MI – WB8R
- Sep 17, 2017 Adrian Hamfest, Adrian, MI – WB8R
- Sep 23, 2017 GMARC Fall Trunk Swap

Michigan Public Service Activities

Michigan Section Traffic/ARPSC Nets (all times local)

Please note that time adjustments may be necessary due to propagation changes. Contact your net manager for alternate frequencies and/or times.

- MACS - MI Amateur Communications System 3.952 1000 Daily
- UPN – Upper Peninsula Net 3.921 1700 Daily; Noon Sun
- MIARPSC – MI Amateur Radio Public Service Corps 3.932 1700 Sun
- QMN – The Michigan Net 3.563 1830 and 2200 Daily
- MITN – MI Traffic Net 3.952 1900 Daily
- MIDTN – MI Digital Traffic Net 3.583 (Olivia 8/500) 2000 Tu, Th, Sat
- MIADS – MI ARES D-Star Net Reflector 24A Mon 2000
- D8EN - District 8 Emergency Net 3.909 Wed 2000
- GLETN – Great Lakes Emergency and Traffic Net 3.932 2000 Daily
- MVTN – MI VHF Traffic Net IRA Link System 2100 Mon, Wed, Fri, Sun
- NLEUP - Northern Lower Eastern UP Net 146.64- 18:30 Daily
- SEMTN – SE MI Traffic Net 146.76- 2215 Daily
- TMMTN – Thumb Mid-Michigan Traffic Net 147.30+ 2130 Mon - Sat

More information is available at <http://nts-mi.org/>. Come join us on our traffic and public service nets.

Michigan ARPSC Activities for July, 2017

SARs for July, 2017: WB8WKQ 175, WD8MWD 79, K8ED 74, N5MKY 73, K8RDN 69, K8BKM 43, WD8USA 37, KC8NFN 11, KE8BYC 9, WB8RCR 8, N8OSL 1.

Total SAR reported: 579

PSHRs for July, 2017: WD8USA 222, N5MKY 175, WB8RCR 168, N8OSL 134, WD8MWD 130, K8RDN 120, KC8YVF 103, WB8WKQ 90, K8ED 70, KC8NFN 51, NE8B 30, KE8BYC 21.

Brass Pounder's League (BPL): None

Net traffic for July, 2017: The Michigan Net 101, Michigan Traffic Net 64, Michigan Amateur Communications System 48, Great Lakes Emergency and Traffic Net 46, Upper Peninsula Net 40, Southeastern Michigan Traffic Net 23, Northern Lower Eastern Upper Peninsula Net 20, Saginaw County ARES Net 4, District 3 ARPSC Net 3, Red Cross Net of Greater Grand Rapids, Michigan Amateur Radio Public Service Corps, Bay Area Regional Traffic System, Branch County Emergency Net, District 5 Hospital Net, Michigan ARES D-Star net, Genesee County ARPSC Traffic and Training Net, Chelsea ARC Net, District 8 Digital Emergency Net, District 8 Emergency Net, Luce County ARES Net.

Total net traffic reported: 349

July Volunteer Hours Dollar Value:

ARPSC: \$195,404

NTS: \$27,258

Total Volunteer Dollar Value for July, 2017: \$222,662

A hearty thanks to the hundreds of volunteers across the State of Michigan who work hard as volunteers to hone their skills month after month to make sure they are ready for any situation that may arise. Our ARPSC and NTS programs are an integral part of AuxComm, which in turn is an integral part of the Michigan State Police Homeland Security Division.

73 until next month,

Larry, WB8R



Dales Tales

Greetings everyone, welcome to "Dale's Tales" for September 2017.

With the nominations now closed for the Great Lakes Division Awards, the Committee is now reviewing the applications. Thanks to so many for offering nominations for these awards. Without doubt, the committee will have its job cut out for it as the selections are made from so many well-qualified individuals in Kentucky, Ohio and Michigan. The following Division awards are under consideration: George S. the Year Award; Technical Achievement Award; DX Achievement Award; Young Radio Amateur of the Year Award; and the Joseph J. Phillips, K8QOE, Newsletter Award. The award presentations will be made at the Great Lakes Division Convention Banquet in conjunction with Great Lakes HamCon at Michigan International Speedway in Brooklyn, MI on October 7 & 8.

Speaking of that, the Great Lakes HamCon and the ARRL Great Lakes Division Convention will be upon us in a month. We are pleased that our selection of Forums will bring some top-notch events to the Convention.

On Saturday:

Opening Ribbon Cutting and Kickoff Session and ARRL Forum Dan Romanchik KB6NU will present his Tech-in-a-Day License Class

The Ford Amateur Radio League will conduct FCC exams following the class

Marsha Fleming N8FE will host the gathering of the Young Ladies Radio League, the YLRL

South East Michigan DX Assn will host the DX Forum - Al K8SIX and Stan AC8W will moderate

The Ohio Section will host our Clubs Forum - Tom WB8LCD will be the moderator

The Mad River RC will host the Contesting Forum - Dave K8CC will moderate

Carl Leutzelschwab K9LA will conduct the forum on Radio Propagation

Joe Eisenburg K0NEB will host the forum Kit Building Techniques for Success

Tom Bosscher K8TB will conduct a forum on Fox Hunting, followed by an actual hunt on the MIS track infield

The Michigan QRP Club will host a forum on Operating QRP - Pete W8KS will moderate

Carole Perry WB2MGP will lead our 2017 Youth Forum

Yaesu will present a forum on their Fusion digital products - hosted by John Kruk N9UPC

In addition to all of these activities, Saturday's events will be followed by the ARRL Banquet featuring ARRL President Rick Roderick K5UR as the featured speaker. Here will present the Divisions Awards and the banquet will be followed by an initiation for new members of the Royal Order of the Wouff Hong.

Sunday's activities includes these forums and events:

The Toledo Mobile RA will host a forum on operating from Museum Ships - Glenn W8MUK will moderate

Dan KB6NU will host the Forum on Operating CW.

ARES Forum hosted by the Division SECs

NTS Forum hosted by the STMs

Grand Prize Awards

The HamCon team really feels that a great cross-section of amateur radio activities is represented with this selection of forums and events. The emphasis has been focused on learning activities, each session offering an insight to a particular facet of ham radio, ranging from sessions for new YLs, the latest in youth activities, plus information for both the new comer and the seasoned veteran. You can stay up to date with the planned activities at: glhamcon.org

TOM'S COMMENTS: Comments from our Vice Director Tom Delaney W8WTD

We're all very aware of disasters this month as we watch the still-unfolding events in Texas. It was interesting to check into a net last week and be asked "how well prepared are you to shelter in place for several days?" The responses varied. Some sounded quite ready, others not so much. Those who didn't have enough preparation reluctantly agreed that perhaps they needed to do some more. If you're one of those people, resources are available to help, such as "www.ready.gov."

As a long-time Red Cross volunteer who has worked on disaster relief in a number of situations, and been in on even more planning exercises, I see the question for hams as having two parts. First, of course, is keeping yourself and your family safe. Some of that is just having the necessary items to either shelter in place or to evacuate to a place of safety when necessary. And many of us have stand-by power for our radios, so we can communicate from home either for our own needs or for those around us.

The second part is what a lot of dedicated ARES volunteers do --be prepared to help others, whether in your local community or someplace farther away. And for that, you need the various go-kits that we all put together. I was thinking about how my own "go-kit" has evolved over the years. I finally took out the phone wires and telephone that have been in there a long time. And the roll of quarters for that pay phone that may have still been operational on a corner somewhere. Don't laugh. At one point, those were important. So now we have new tools, but we need to keep up with the times. An annual review of what is in there is probably very useful for each of us to stay ready. Maybe at

your next club meeting everyone could do a "show and tell" of go kits.

We always inspire each other to think about that one item we've overlooked.

Ham radio has always had a component of public service. We each need to do our part to be ready when the time comes.

73, Tom W8WTD Vice Director, Great Lakes Division

HAMFESTING: Here is the current Great Lakes Division ARRL Sanctioned Hamfest Schedule covering the remainder of the year. These swaps have received their sanctioning approval from ARRL HQ at the time of this publication. We have approximately 65 ARRL hamfests each year in the Division. I do encourage each Hamfest Chair to register early for ARRL Sanctioning. Be sure to invite your ARRL Officials as soon as your date is set.

9/9/17 Grand Rapids GRAHamfest Wyoming, MI

9/9/17 Greater Louisville Hamfest Sheperdsville, KY

9/10/17 Findlay Findlay, OH

9/16/17 Richmond Fall Hamfest Richmond, KY

9/17/17 Adrian Adrian, MI

9/23/17 GM ARC Trunk Swap Shelby Twp, MI

9/23/17 OHKYIN ARS Hamfest Cincinnati, OH

9/24/17 Cleveland Hamfest Berea, OH

9/30/17 Mich-a-Con & Iron Range Crystal Falls, MI

9/30/17 Paintsville Hamfest Paintsville, KY

10/7/17 Cave Run Hamfest Moorehead, KY

10/7/17 Vette City Bowling Green, KY

10/7 & 8 Great Lakes Div. Convention Brooklyn, MI

10/7/17 Scioto Valley Chillicothe OH

10/15/17 Conneaut Hamfest Conneaut, OH

10/21/17 Muskegon Color Tour Muskegon, MI

10/22/17 Kalamazoo Kalamazoo, MI

10/28/17 Hazard Hazard, KY

10/29/17 Massilon Massilon, OH

10/29/17 USECA Madison Hts, MI

11/4/17 Grant ARC Hamfest Georgetown, OH

12/3/17 Lanse Creuse Madison Heights, MI

Be sure to check your Section's news pages for the latest local happenings, club and net information.

73, Let's be radio-active.



Dale Williams WA8EFK
 Director
 Great Lakes Division

ARRL PROPAGATION BULLETIN

Propagation Forecast Bulletin 36 ARLP036 From Tad
 Cook, K7RA Seattle, WA
 September 9, 2017
 To all radio amateurs

Wow! What a week for solar activity. Although the solar cycle trend is down over the past few years and moving toward a solar minimum around the year 2020, we will still see notable upticks in activity, such as this week's surprising events.

On August 31, <http://www.spaceweather.com> reported a G-1 Class geomagnetic storm. Planetary A index was 59. The following day Spaceweather.com reported geomagnetic unrest with a planetary A index of 19. Planetary A index was 26 on September 2 when Spaceweather.com reported sunspot group AR2674 "rapidly growing, increasing in both area and sunspot count."

"As the sunspot grows, its magnetic field is becoming unstable, posing a threat for M-class solar flares." Planetary A index was 9 on September 3, when Spaceweather.com reported two huge sunspot groups facing Earth.

"Behemoth AR2674 has been growing for days, while newcomer AR2673 has suddenly quadrupled in size, with multiple dark cores breaching the surface of the Sun in just the past 24 hours. This movie from NASA's Solar Dynamics Observatory shows sunspot genesis in action:
<http://bit.ly/2vOgnZ6>

On September 4, the planetary A index was 18, and Spaceweather.com reported: "Huge sunspot AR2673, which materialized with shocking speed over the weekend, is seething with activity.

A few days ago in Romania, solar photographer Maximilian Teodorescu captured this snapshot of plasma currents surging inside the sunspot's magnetic canopy, apparently on the verge of an explosion":

<http://bit.ly/2wKVmvK>

Note the recent emergence of large sunspot areas:

<http://bit.ly/2eN4Xh0>

We also saw the largest solar flare in over a decade launch Thursday night.

Predicted solar flux is 115 on September 9, 105 on September 10, 90 on September 11-15, 85 on September 16-17, 88 on September 18, 92 on September 19-21, then 95, 98, 100 and 105 on September 22-25, 110 on September 26 through October 2, 105 on October 3-5, then 100, 95, 90, 85 and 80 on October 6-10, 85 on October 11-14, 88 on October 15, 92 on October 16-18, and 95, 98, 100, 105 and 110 on October 19-23.

Predicted planetary A index is 30 and 10 on September 9-10, 8 on September 11-12, then 28, 30, 20, 25 and 12 on September 13-17, 5 on September 18-19, 8 on September 20, 5 on September 21-22, then 8, 5, 8 and 5 on September 23-26, 20 on September 27-29, then 12, 10, 8 and 5 on September 30 through October 3, 15 on October 4-5, 8 on October 6, 5 on October 7-9, 25 on October 10-12 then 20 and 10 on October 13-14, 5 on October 15-16, then 8, 5, 5, 8, 5, 8 and 5 on October 17-23.

Here is the latest geomagnetic activity forecast for the period September 8 to October 4, 2017 from OK1HH:

"Geomagnetic field will be: Quiet on September 20, 24
 Mostly quiet on September 11, 21

Quiet to unsettled September 12, 19, 22, 25, October 2-4
 Quiet to active on September 10, 15, 17-18, 23, 26-27, 30,
 October 1 Active to disturbed on September 8-9, 13-14,
 16, 28-29

"Amplifications of the solar wind from coronal holes are
 expected on September 8-10, 13-19, 27-28, October (1,) 2-
 4

"Remark: - Parenthesis means lower probability of activity
 enhancement and/or lower reliability of prediction.

"F.K. Janda, OK1HH Czech Propagation Interested Group"
 Lou, VK5EEE sent this, which I edited:

"Do not believe modern-day short-cut internet-gimmicks
 such as this (he included a reference to an online tool pre-
 dicting propagation titled "HF Conditions").

"Have a listen to the propagation beacons, tune around
 the bands!

Remember there is NO SUCH THING generally speaking as
 a GLOBAL HF one-size-fits-all-situation in spite of the mod-
 ern trend to paint that picture into their systems. Part of
 the world is in darkness, part in light. There are many grey
 areas. The K index varies from location to location. East-
 West and North-South paths are affected differently by
 events.

"Nor should we rely on advanced real-time programs such
 as VOAProp by G4ILO. While useful, these also give some-
 times wildly false readings. For example, as I write this,
 bands including 10m are having great propagation to all of
 America and to Asia, and perhaps to other places too,
 while showing that even with 4kW and a big high up Yagi
 at most S1 signals from a few isolated places north of Aus-
 tralia would be possible. NOT. I just need to tune in to
 28200 to hear all the beacons coming in so nice and clear
 and they are running 100W to simple Ground Plane anten-
 nas.

"What does the Australian government have to say about
 conditions right now on the SWS website? 'Disturbed!'

"Again we may be tempted to take that at face value. 20-
 10m has not been open much from VK in recent times
 with very low solar flux and no sunspots at times. However
 right now, 10m is open. 12m is open, 15, 17 and 20m.
 Little activity but the beacons are clear, and Costa Rica

booming in on SSB on 20m even though the local time
 here is high noon with the Sun high in the sky.

"If we look at the regional T index map,

"http://www.sws.bom.gov.au/HF_Systems/1/6/1

"we see that in Australia and New Zealand conditions are
 actually enhanced.

"If we look at the world map,

"http://www.sws.bom.gov.au/HF_Systems/6/9/1

"we see that conditions in most of the world are EN-
 HANCED, most of the rest is NORMAL and only a few areas
 in parts of the Central Pacific and near to the North Pole
 (parts of Canada, part of
 Greenland) and northern Siberia are depressed. So why is
 there so much alarm and DEPRESSED shown as a 'one size
 fits all' on simple condensed gimmicks? Well, it is true for
 those few parts of the world. And somewhere the K index
 is indeed 8, somewhere it is worse, somewhere better.

"Bear in mind that while over today and tomorrow there is
 a possibility or even a probability of short wave fade-outs
 (not worldwide but generally on the Sun side of the earth)
 but the Solar Activity being high to very high means that
 when there is not a fadeout conditions are most likely to
 be enhanced! We should be SO HAPPY that solar flux is
 now well above 100, as that means HF openings occur on
 higher bands more often.

"With the current predicament of those few radio ama-
 teurs who are not hampered by various distractions, the
 LOCAL NOISE levels are prohibitive on lower frequencies.
 When bands above 20m open up, we should not be scared
 off by a glance at the RED/POOR prediction and miss out
 on all the easy DX with simple antennas and low noise to
 be had while the higher HF bands are wide open. Let us
 not forget the IBP beacons, and to tune around and call
 CQ even when predictions would encourage you do to
 otherwise."

Lou makes some excellent points. The various propagation
 models used in the tools for predicting HF success are
 based on mean predicted sunspot numbers for the month,
 and cannot predict real time HF propagation. Lou included
 this URL: <http://30cw.net/> .

On September 7, Mark Lunday, WD4ELG in North Carolina
 reported great propagation to South America on 10 me-
 ters using the new FT8 mode.



More about FT8, which is from Joe Taylor, K1JT, can be found at:

<http://ve3wdm.blogspot.com/2017/07/ft8-from-zero-to-fifteen-seconds.html>

Jon Jones, NOJK in Kansas wrote on September 4:

"10 Meters was back Sunday afternoon August 27 for intercontinental DX.

"I had been working the Hawaiian QSO Party on 15 and noted spots for Hawaiians on 10. I went to 10... unfortunately did not hear Hawaii but logged WP4JW FK68 on 10 SSB at 2307z followed by LU5XP FF97 Argentina at 2310z. The QSO with WP4JW was probably double hop Es as I saw many Es contacts spotted around this time on 10. The LU contact may have been Es link to TEP. LU5XP was very loud for about 15 minutes then vanished abruptly. HK1MW was spotted via Es to W3, W7 and W0.

"Stations in Hawaii did work North America on 10 meters August 27, I saw Hawaiians spotted by stations in Florida, Texas, California, Washington State, Oregon and New Mexico."

If you would like to make a comment or have a tip for our readers, email the author at k7ra@arrl.net.

An archive of past propagation bulletins is at <http://arrl.org/w1aw-bulletins-archive-propagation>. More good information and tutorials on propagation are at <http://k9la.us/>.

Monthly propagation charts between four USA regions and twelve overseas locations are at <http://arrl.org/propagation>.

Instructions for starting or ending email distribution of ARRL bulletins are at <http://arrl.org/bulletins>.

Sunspot numbers for August 31 through September 6, 2017 were 59, 62, 71, 96, 122, 122, and 79, with a mean of 87.3. 10.7 cm flux was 91.9, 93.4, 100, 120.2, 140, 120.5, and 132.9, with a mean of 114.1. Estimated planetary A indices were 31, 19, 26, 9, 18, 12, and 11, with a mean of 18. Estimated mid-latitude A indices were 20, 17, 25, 10, 16, 11, and 18, with a mean of 16.7.

NNNN

ARRL DX NEWS

ZCZC AE36
QST de W1AW
DX Bulletin 36 ARLD036
From ARRL Headquarters
Newington CT September 7, 2017
To all radio amateurs

This week's bulletin was made possible with information provided by QRZ DX, the OPDX Bulletin, 425 DX News, The Daily DX, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

SENEGAL, 6W. Ronald, VE3REV is QRV as 6W1SU from Dakar and is here for the next 2 to 3 years. Activity is on 80 to 6 meters using SSB.

QSL direct to MOURX.

ALGERIA, 7Y. Bodo, DF8DX will be QRV as 7Y0A from Bechar from September 11 to 22. Activity will be on the various HF bands using CW and SSB. QSL via operator's instructions.

BOTSWANA, A2. Alex, IW5ELA is QRV as A25AL from various locations until September 15. Activity is holiday style on the HF bands using mostly CW. QSL direct to home call.

MOROCCO, CN. Tev, TA1HZ and Golkem, TA7AZC are QRV as CN2HZ and CN2ZC, respectively, until September 13. Activity is on the HF bands. This includes being active in the Worked All Europe SSB DX contest. QSL CN2HZ via LZ3HI, and CN2ZC direct to home call.

NIUE, E6. Grant, VK5GR will be QRV as E6AG from September 13 to 25. Activity will be on 40 to 6 meters. This includes being an entry in the upcoming CQ World Wide RTTY contest. QSL via MOOXO.

CANARY ISLANDS, EA8. Emanuele, IZ1UKX is QRV as EA8/IZ1UKX from Lanzarote Island, IOTA AF-004, until September 17. Activity is holiday style on 30 to 10 meters using CW, SSB, RTTY and PSK. QSL to home call.

FRENCH POLYNESIA, FO. Heinz, DF1YP is QRV as FO/DF1YP from Moorea, IOTA OC-046, until October 1. Activity is on 20, 17 and 15 meters using SSB and various digital modes. QSL to home call.

LIECHTENSTEIN, HB0. Kasimir, DL2SBY will be QRV as HB0/DL2SBY from September 9 to 15. Activity will be on 80 to 10 meters using CW and SSB with a concentration on RTTY. QSL direct to home call.

DENMARK, OZ. Jens, OZ0JD will be QRV as OZ0JD/p from Laesoe Island, IOTA EU-088, from September 10 to 15. Activity will be on the HF bands using RTTY and FT8. QSL to home call.

SOUTH SHETLAND ISLANDS. Sebastian, SQ1SGB is QRV as HFOARC from the Polish Antarctic Station H. Arctowski on King George Island, IOTA AN-010, until October 10. Activity is on 40 and 10 meters at various times using JT9/65 and some SSB. QSL direct to home call.

DODECANESE, SV5. Claudio, HB9OAU will be QRV as SV5/HB9OAU from Karpathos Island, IOTA EU-001, from September 9 to 22. Activity will be on 40 to 10 meters using SSB, RTTY and PSK. QSL to home call.

ANTIGUA, V2. Bud, AA3B will be QRV as V26K from September 14 to 19. Activity will be on the HF bands using CW and possibly RTTY and FT8. QSL direct to home call.

COCOS (KEELING) ISLAND, VK9C. Lance, W7GJ will be QRV as VK9CGJ from September 12 to 30. This is a 6-Meter EME operation. QSL direct to home call.

VANUATU, YJ. Rod, YJ8RN will be QRV as YJ8RN/p from Loh Island, IOTA OC-110, from September 11 to 29. Activity will be in his spare time on 80, 40 and 20 meters using SSB. He may be active from IOTAs OC-035 and OC-104 as well. QSL via NZ4DX.

ZIMBABWE, Z2. David, G4NRT will be QRV as Z21NRT from Harare from September 9 to 29. Activity will be during his spare time on 80 to 6 meters, and 2 meters FM, using CW, SSB, PSK, JT9/65 and FT8. QSL direct to home call.

MACEDONIA, Z3. Arno, DL1CW will be QRV as Z38/DL1CW from Orhid from September 11 to 13. Activity will be on 40 to 10 meters using only CW. QSL to home call.

ALBANIA, ZA. Arno, DL1CW will be QRV as ZA/DL1CW from Pogradec on September 9 and 10. Activity will be on 40 to 10 meters using only CW. QSL to home call.

THIS WEEKEND ON THE RADIO. The ARRL September VHF Contest, ARRL EME Contest, North American CW Sprint, NCCC Sprint CW Ladder, Worked All Europe SSB DX Contest, Kulikovo Polye 20-Meter CW Contest, FOC CW QSO Party, SARL Field Day Contest, SKCC Weekend CW Sprintathon, Ohio State Parks on the Air, Russian Cup Digital Contest and the Classic CW Exchange will certainly keep testers busy this weekend.

The RSGB 80m Autumn SSB Series and 4 States QRP Group Second Sunday Sprint are scheduled for September 11.

The Phone Fray and CWops Mini-CWT CW Test are scheduled for September 13.

Please see September 2017 QST, page 84, and the ARRL and WA7BNM Contest Web Sites for details. NNNN



CLASSIFIED

Looking to swap my 50' aluminum tower, C-II rotor and control box. Please email fdlequia@alphacomm.net with info. Thanks!

Fuzzy Wd9hdp
Felch, MI

Space Available to push your stuff

LINKS AND STUFF

Under re-construction. Watch for the orange barrels

*Delta County Amateur Radio
Escanaba, MI
www.dcars.org*

*Cooper Country Radio Amateur
Dollar Bay, MI
www.ccras.net*

Area Repeaters

Escanaba 147.15+	100.0
	145.13- No PL
Wells 444.30+	No PL
Gladstone	
IRLP 4013 147.55 Smpx	100.0
Champion	146.82- 100.0
Cooks	146.70 - 110.9
GrdMarais	147.195+ No PL
Gwinn	146.64 100.0
Iron Mtn	146.85 — 100.0
Iron River	145.17- 107.2
Ishpeming	146.91- No PL
IRLP 8993	443.50+ 100.0
Manistique	146.79 - No PL
Marquette	146.97 - No PL
	147.27+ 100.0
	444.80+ No PL
Menominee	147.00+ 107.2
Newberry	146.61 + No PL
	147.09+ 114.8
Republic	147.09+ No PL
Trenary	147.03 + 100.0
Wetmore	145.41- 100.0

ARRL Affiliated Club Area Nets

UP Net 3921khz
Daily 5pm EST
Sunday Noon EST

UP CW NET 3590khz
Sunday 7pm EST

160 Net 1895khz
Everynight 0100UTC
Dailey 0600UTC

Midcars 7258khz
Daily 0730am EST
0200pm EST

Outhcars Node 9614
Saturday 0900am EST

UP Echolink Node 9617
Sunday 8pm EST

Copper County ARES
146.88
Wednesday 6pm EST

Dickenson County ARES
146.85
Sunday 6pm CST

Mich-A-Con Social
146.850
Thursday 0630pm CST
ARES follows

ARRL WEB PAGE: <http://www.arrl.org>

ARRLMICHIGAN: <http://www.arrl-mi.org/>

US REPEATERS: <http://www.usrepeaters.com>

Tropospheric Ducting Forecasts:
<http://www.d/infocentre.com/tropo.html>

MICH-A-CON : <http://www.qsl.net/ka1ddb>

FCC Universal Licensing System: <http://wireless.fcc.gov/uls/>

QTH Com: <http://www.qth.com/>

QRZ <http://www.qrz.com/>

E Ham Net <http://www.eham.net/>

UP Skywarn: <http://kera-mi.net/skywarn/>

Band Conditons: <http://bandconditions.com/>

ABOUT OUR CLUB....**Club Officers****President:**

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Activities:

Second Wednesday of the month the Mich-A-Con Amateur Radio Club meets in the Dickinson Country Library at 7:00 P.M. Winter or 6:30 PM Summer

Visitors and prospective members are always welcome!

Club Repeater:

The Club maintains two repeaters which are located on Pine Mountain (Elevation 1650 ft) in Iron Mountain with tower and facilities provided by the Wisconsin Electric Power Co. The range of the 2 meter repeater is about 40 miles. The range of the 440 MHZ repeater is about 25 miles. Both are under normal conditions, depending upon terrain.

The Repeater Specifications:

The 146.85 repeater is a Yaesu DR 1 digital and Analog repeater Frequency. 146.85 minus offset, 100 hz PL tone encode and decode Power 50 watts. The Controller is an Arcom RC 210 . It is also System Fusion capable.

The 440 MHZ repeater is a GE Master II 444.85, plus offset, 100 hz pl tone. 35 watts output. The Controller is a Arcom 210.

The 2 meter and the 440 can be linked. The repeaters share a Diamond dual band antenna at a tower height of 125 ft.

We're on the Web!

<http://www.qsl.net/ka1ddb/>

Previous editions of the Newsletter can be accessed by a link on the **news** page

From Your Newsletter Editor

Thank you to those contributors and critiques.
 Welcome your articles - They make the Newsletter.

For those not getting the Newsletter, it is because I have an incorrect email address. Please give me the correct address.

The following is referenced from <http://www.dx-code.org>

DX Code Of Conduct

I will listen, and listen, and then listen again before calling.

I will only call if I can copy the DX station properly.

I will not trust the DX cluster and will be sure of the DX station's call sign before calling.

I will not interfere with the DX station nor anyone calling and will never tune up on the DX frequency or in the QSX slot.

I will wait for the DX station to end a contact before I call.

I will always send my full call sign.

I will call and then listen for a reasonable interval. I will not call continuously.

I will not transmit when the DX operator calls another call sign, not mine.

I will not transmit when the DX operator queries a call sign not like mine.

I will not transmit when the DX station requests geographic areas other than mine.

When the DX operator calls me, I will not repeat my call sign unless I think he has copied it incorrectly.

I will be thankful if and when I do make a contact.

I will respect my fellow hams and conduct myself so as to earn their respect.

MEMBERSHIP

Call Sign	Last Name	First Name	City	Phone	Email
WB8EBS	ARMBRUST	BURT	QUINNESEC	906-774-8383	wb8ebs@yahoo.com
W8XBO	ARMBRUST	ED	IRON MOUNTAIN	906-779-5593	w8xbo@sbcglobal.net
KC9KVP	BAKER	BETH	NIAGARA		
KB9AVX	BAKER	SCOTT	NIAGARA	715-251-1944	kb9avx@yahoo.com
KB8SBP	BERTOLDI	BILL	KINGSFORD		
W8BEY	BEY	DANA L.	KINGSFORD	906-774-7937	lst797@charter.net
K8DDA	BRAY	MIKE	VULCAN	906-201-1550	mikebray@chartermi.net
KE9L	CASWELL	SKIP	IRON MOUNTAIN	906-774-3371	acaswell4238@charter.net
KC8QZG	DAKE	DAVE	NEWBERRY		
KC9ZBC	DOLATOWSKI	SCOTT	GOODMAN	715-633-1006	kc9zbc@live.com
KC9TQR	FERRIS	JOE	FLORENCE	517-589-4386	jrferris@borderlandnet.net
N9MBG	FRY	ED	PEMBINE	906-221-7307	efry7849@gmail.com
KG8NK	GEMBOLIS	LOUIS	ISHPEMING	906-485-5442	lgembolis@chartermi.net
KD8VTS	GRABOWSKI	DEBRA	CRYSTAL FALLS	906-284-2450	kd8vts@gmail.com
KD8VTT	GRABOWSKI	WILLIAM	CRYSTAL FALLS		
KC8TH	HEYBOER	TOM	IRON MOUNTAIN	906-779-0481	heyboer.tom@gmail.com
N8ATS	HOLMES	SAM	PEMBINE	906-322-8507	chopsam@centrylink.com
KA8TFF	JARMUSCH	SCOTT	IRON MOUNTAIN		
KB9EMU	KNUTSON	WILLIAM	FENCE	715-336-2250	dknutson54@gmail.com
KB8ETK	KOMBLEVICZ	JOSEPH	IRON MOUNTAIN	906-774-4094	kombleviczj@charter.net
KD9HQD	LaLIBERTE	BRUCE	NIAGRA, WI	?	liberte@borderlandnet.net
W8JWN	MARTIN	THOMAS	IRON MOUNTAIN	906-774-5463	tmartin@chartermi.net
WA8FXQ	MEYERS	BOB	VULCAN	906-396-0119	meyersb@uplogon.com
KC8LRP	MEYERS	MARGE	VULCAN	906-396-8913	mgmeyer@uplogon.com
N8TUM	MILLER	TIMOTHY	FLORENCE	715-696-6517	timmiller.up@gmail.com
K9TRY	MORIRITY	TERRY	NIAGARA	715-251-1670	kb9zer@yahoo.com
ND8M	PAUL	JARED	NORWAY	989-660-9535	jaredpaul@me.com
KD8SZA	PAUL	MICHELLE	NORWAY		
KC9NFT	PERRON	BARRY	FLORENCE	715-696-6175	bperron2@netzero.com
KC8JRI	REED	GORDY	IRON MOUNTAIN	906-779-1254	gordyreed@charter.net
K8ABS	RIVERSIDE	JIM	IRON MOUNTAIN	906-458-0773	jriverside@charter.net
W8IFI	RYE	JIM	CRYSTAL FALLS	906-875-3582	jimrye@up.net
K4FMX	SCHAFAER	GARY	NIAGRA, WI	?	GARYSCHAFAER@LARGERIVER.NET
KG9Y	THOMAS	DAVE	NIAGARA	715-251-1393	kg9y@arrl.net



MICH - A - CON

Please remit dues to:

**Debbie Garbowski, KD8VTS
203 Camp 5 Road
Crystal Falls, MI 49920**

Name: _____

Call Sign: _____

Address: _____

City, State, Zip: _____, _____, _____

Email Address: _____

Phone: _____

ARRL Member? Yes _____ No _____

Please make check payable to: **Mich-A-Con ARC**

Annual dues for Full Membership -

Single \$20 __ Family \$30 __ Repeater Only \$10 __

If family membership, please list additional:

Names: _____

Call signs: _____

City, State, Zip: _____

Annual dues are Payable January 1st.

Dues for New Members are Pro-rated. Please remit \$1.67 per month for a Single membership or \$.50 per month for a Family membership.